INCH-POUND

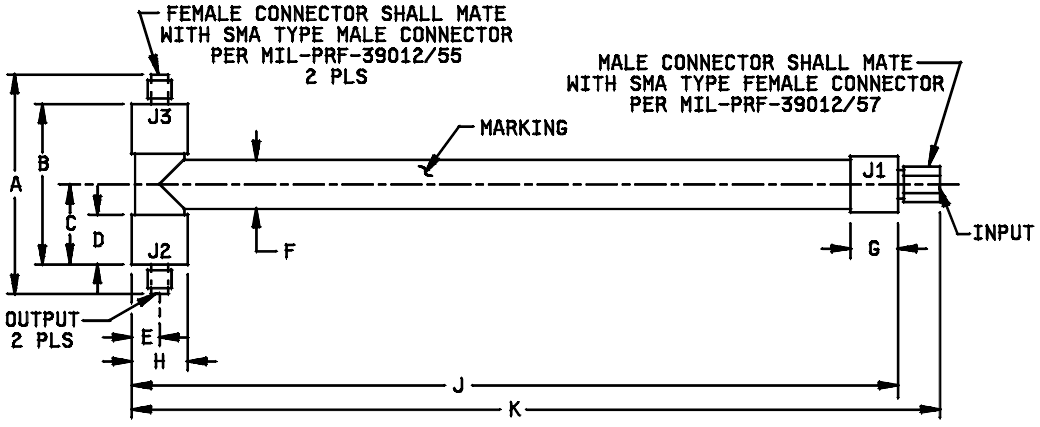
MIL-DTL-23971/9A
23 April 2002
SUPERSEDING
MIL-P-23971/9
22 February 1980

DETAIL SPECIFICATION SHEET

POWER DIVIDER, N-WAY, 0 DEGREES, SMA CONNECTORS

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the power divider described herein shall consist of this specification sheet and MIL-DTL-23971.



	Dimensions			
	Inches		Millimeters	
	Max	Min	Max	Min
A	2.00	1.88	50.8	47.8
B	1.43	1.41	36.3	35.8
C	.98	.96	24.9	24.4
D	.45	.43	11.4	10.9
E	.255	.245	6.5	6.2
F	4.45 dia	4.25 dia	113.0 dia	108.0 dia
G	.43	.41	10.9	10.4
H	.51 dia	.49 dia	13.0 dia	12.4 dia
J	6.78	6.77	172.2	172.0
K	7.20	7.08	182.9	179.8

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Dimensions and configuration, 2-way dash number 01.

REQUIREMENTS:

Design and construction: See figure 1.

Body: O-ring seal.

Ambient temperature:	operating	storage
	-40° to +105°C	-65° to +125°C

Electrical performance characteristics:

Impedance: 50 ohms.

Frequency range: 0.5 to 1.5 GHz.

Average coupling: 3 ±.25 dB. 1/

VSWR: 1.15:1 maximum. 1/

Insertion loss: 0.05 dB maximum.

Isolation: 6.0 dB minimum.

Phase balance: ± 6.0 degrees maximum.

Amplitude balance: ±1.0 dB maximum.

Power level: 150 W average, 2 kW peak.

Environmental tests: In accordance with MIL-DTL-23971 except:

Thermal shock: In accordance with method 107 of MIL-STD-202, test condition B.

Shock: In accordance with method 213 of MIL-STD-202, test condition G, except peak value of 100G.

Salt spray: In accordance with method 101 of MIL-STD-202, test condition A.

1/ Measured from 0.960 to 1.215 GHz.

Part number: M23971/9-01.

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Review activities:
Navy - AS, MC, OS

Preparing activity:
DLA - CC

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